

RESIST COATING EQUIPMENT (07-122475)**Publication Number:** JP 7122475 A) , May 12, 1995**Inventors:**

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JAPIO Class:

- 42.2 (ELECTRONICS--- Solid State Components)
- 14.7 (ORGANIC CHEMISTRY--- Coating Material Adhesives)
- 29.1 (PRECISION INSTRUMENTS--- Photography & Cinematography)
- 36.1 (LABOR SAVING DEVICES--- Industrial Robots)

Abstract:

PURPOSE: To form a high-quality resist film free from coating irregularity, by constituting a resist coating equipment of a resist coating part and an optical system.

CONSTITUTION: The title resist coating equipment is constituted of only a resist coating part 1 and an optical system 2. That is, as to the resist coating part 1, a retaining stand 4 necessary for fixing resist on a semiconductor substrate 3 to be treated by centrifugal separation system is fixed to a rotary shaft 6 directly coupled to, e.g. a spin motor 5, and constituted to be able to rotate. In order to cover them and obtain a constant atmosphere, a cup 7 is laid, and bearing mechanism is installed between the cup 7 and the rotary shaft 6, so that the rotary shaft 6 and the retaining stand 4 can freely rotate. A nozzle for resist coating process is arranged above the retaining stand 4. The substrate 3 to be treated wherein the resist coating process is finished is heated and dried with the optical system 2. The light radiated from an incandescent lamp 12 which has a specified wavelength is converged with the optical system 2. The resist spread on a specified region on the semiconductor substrate 3 to be treated is irradiated with the converged light, and heated and dried.

JAPIO

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